

## SEQUENCE LISTING

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 FILIPPOVICH, IGOR VLADIMIROVICH

<120> PLASMIN INHIBITORS FROM THE AUSTRALIAN BROWN SNAKE  
 PSEUDONAJA TEXTILIS TEXTILIS

<130> 065064/0133

<140> 09/700,179  
 <141> 2001-07-27

<150> PCT/AU99/00343  
 <151> 1999-05-07

<150> AU PP3450  
 <151> 1999-05-11

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<170> PatentIn Ver. 2.1

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aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa aaa aag tgc 96  
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Lys Lys Cys  
 20 25 30

cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc 144  
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile  
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 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile  
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 aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa caa aaa tgc      96  
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys  
                     20                    25                    30  
 cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc      144  
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile  
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 aaa ggc aac gtc cca cgc ttc tac tac aac gca gat cat cat caa tgc 96  
 Lys Gly Asn Val Pro Arg Phe Tyr Tyr Asn Ala Asp His His Gln Cys  
 20 25 30  
 cta aaa ttt att tat ggt gga tgt gga ggg aat gct aac aat ttt aag 144  
 Leu Lys Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys  
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 gaa gac ttt acc gga gcc ttc cac tac agc aca cgt gat cgt gaa tgc 96  
 Glu Asp Phe Thr Gly Ala Phe His Tyr Ser Thr Arg Asp Arg Glu Cys  
                   20                  25                  30  
  
 ata gag ttt att tat ggt gga tgc gga ggg aat gct aac aat ttt atc 144  
 Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile  
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                   20                  25                  30  
  
 Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile  
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Lys Asp Arg Pro Lys Phe Cys Glu Leu Pro Ala Asp Ile Gly Pro Trp  
1 5 10 15

gat gac ttt acc gga gcc ttc cac tac agc cca cgt gaa cat gaa tgc 96  
Asp Asp Phe Thr Gly Ala Phe His Tyr Ser Pro Arg Glu His Glu Cys  
20 25 30

ata gag ttt att tat ggt gga tgc aaa ggg aat gct aac aac ttt aat 144  
Ile Glu Phe Ile Tyr Gly Gly Cys Lys Gly Asn Ala Asn Asn Phe Asn  
35 40 45

acc caa gag caa tgc gaa agc acc tgt gct gcc tga 180  
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 Glu Val Leu Thr Pro Val Ser Ser  
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72

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gag gtg ctg acc ccc gtc tcc agc aag gac cgt ccg gat ttc tgt gaa 96  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu  
 -5 -1 1 5

ctg cct gct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac 144  
 Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
 10 15 20

tac aac cca gat gaa aaa aag tgc cta gag ttt att tat ggt gga tgc 192  
 Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys  
 25 30 35 40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240  
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 45 50 55

tgt gct gcc tga 252  
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                     -5                    -1    1                    5  
 Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
           10                    15                    20  
 Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys  
   25                    30                    35                    40  
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                     -20                    -15                    -10  
 gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca gag ttg tgt gaa 96  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu  
                     -5                    -1    1                    5  
 ctg cct cct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac 144  
 Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
           10                    15                    20

9

tac aac cca gat gaa caa aaa tgc cta gag ttt att tat ggt gga tgc 192  
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 25 30 35 40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240  
 Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr  
 45 50 55

tgt gct gcc tga 252  
 Cys Ala Ala

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Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
 10 15 20

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys  
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Cys Ala Ala

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                   -20                  -15                  -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aat ttc tgt aaa 96  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys  
                   -5                  -1 1                  5

ctg cct gct gaa acc gga cga tgt aat gcc aaa atc cca cgc ttc tac 144  
 Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr  
           10                  15                  20

tac aac cca cgt caa cat caa tgc ata gag ttt ctc tat ggt gga tgc 192  
 Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys  
   25                  30                  35                  40

gga ggg aat gct aac aat ttt aag acc att aag gaa tgc gaa agc acc 240  
 Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr  
                   45                  50                  55

tgt gct gca tga 252  
 Cys Ala Ala

<210> 20  
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                   -5                  -1 1                  5

Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr  
   10                  15                  20

Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys  
   25                  30                  35                  40

Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr  
                   45                  50                  55

Cys Ala Ala

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Cys Ala Ala

<210> 23  
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                     -20                    -15                    -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aaa ttc tgt gaa 96  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu  
                     -5                    -1    1                    5

ctg ctt cct gac acc gga tca tgt gaa gac ttt acc gga gcc ttc cac 144  
 Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His  
           10                    15                    20

tac agc aca cgt gat cgt gaa tgc ata gag ttt att tat ggt gga tgc 192  
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys  
   25                    30                    35                    40

gga ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240  
 Gly Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr  
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tgt gct gcc tga 252  
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Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu  
           -5                    -1    1                    5

Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His  
     10                    15                    20  
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys  
   25                    30                    35                    40  
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 Cys Ala Ala

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                     -20                    -15                    -10  
  
 gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aag ttc tgt gaa 96  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu  
                     -5                    -1    1                    5  
  
 ctg cct gct gac atc gga cca tgg gat gac ttt acc gga gcc ttc cac 144  
 Leu Pro Ala Asp Ile Gly Pro Trp Asp Asp Phe Thr Gly Ala Phe His  
     10                    15                    20  
  
 tac agc cca cgt gaa cat gaa tgc ata gag ttt att tat ggt gga tgc 192  
 Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys  
   25                    30                    35                    40  
  
 aaa ggg aat gct aac aac ttt aat acc caa gag caa tgc gaa agc acc 240  
 Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Gln Cys Glu Ser Thr  
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 Cys Ala Ala



<212> DNA  
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<223> Description of Artificial Sequence: Gene-specific  
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<210> 30

<211> 31

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gene-specific  
reverse primer for Txln1

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31

<210> 31

<211> 32

<212> DNA

<213> Artificial Sequence

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reverse primer for Txln2

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32

<210> 32

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RACE-ready long  
universal reverse primer

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ctaatacgac tcactatagg gcaagcagtg gtaacaacgc agagt

45

<210> 33

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RACE-ready  
short universal reverse primer

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<210> 34
<211> 23
<212> DNA
<213> Artificial Sequence
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<220>  
<223> Description of Artificial Sequence: RACE-ready  
nested universal reverse primer

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aagcagtggt aacaacgcag agt 23

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<212> DNA
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specific forward primer

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<220>  
<223> Description of Artificial Sequence: Txln1  
gene-specific reverse primer

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<220>  
<223> Description of Artificial Sequence: Txln-active peptide sequence forward primer

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<400> 37
attataggat ccaaggaccg tccggat                27
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<210> 38  
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<220>  
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forward primer for txln2

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<210> 39  
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<220>  
<223> Description of Artificial Sequence: Gene-specific  
forward primer for Txln3

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<210> 40  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Gene-specific  
forward primer for Txln4

<400> 40  
aacgtcggat ccaaggacca tccaaaa 27

<210> 41  
<211> 27  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Gene-specific  
forward primer for Txln5

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<210> 42  
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<223> Description of Artificial Sequence: Gene-specific  
forward primer for Txln6

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attgtcggat ccaaggacct gccaaag

27

&lt;210&gt; 43

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Pseudonaja textilis

&lt;220&gt;

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&lt;220&gt;

&lt;221&gt; sig\_peptide

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&lt;220&gt;

&lt;221&gt; mat\_peptide

&lt;222&gt; (84)..(191)

&lt;400&gt; 43

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 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu  
 -20 -15

acc ctc tgg gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca gag 98  
 Thr Leu Trp Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu  
 -10 -5 -1 1 5

ttg tgt gaa ctg cct cct gac acc gga cca tgt aga gtc aga tcc cca 146  
 Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Ser Pro  
 10 15 20

tcc ttc tac tac aac cca gat gaa caa aaa tgc cta gag ttt att 191  
 Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile  
 25 30 35

tatggtggat gcgaagggaa tgctaacc aaagaggaat gcgaaagcac 251

ctgtgctgcc tgaatgagga gaccctcctg gattggatcg acagttccaa cttgacccaa 311

agaccctgct tctgccctgg accaccctgg acacccttcc cccaaacccc accctggact 371

aattcctttt ctctgcaata aagcttttgg tccagct 408

&lt;210&gt; 44

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

<400> 44

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
                               -20                              -15                              -10

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu  
                               -5                              -1   1                              5

Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Ser Pro Ser Phe Tyr  
           10                              15                              20

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile  
       25                              30                              35

<210> 45

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Formula  
       peptide

<220>

<221> MOD\_RES

<222> (3)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn; preferably  
       His or Arg

<220>

<221> MOD\_RES

<222> (5)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Lys,  
       Asn, Glu or Asp

<220>

<221> MOD\_RES

<222> (6)

<223> Hydrophobic amino acid; preferably Phe or Leu

<220>

<221> MOD\_RES

<222> (8)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>

<221> MOD\_RES

<222> (10)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val  
       or Leu; suitably Pro or Leu

<220>

<221> MOD\_RES

<222> (11)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val  
       or Leu, preferably Pro or Ala

```
<220>
<221> MOD_RES
<222> (12)
<223> Lys, Arg, His, Asp, Glu, Gln or Asn, preferably
      Glu or Asp
```

```
<220>
<221> MOD_RES
<222> (13)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu, suitably Thr or Ile
```

```
<220>  
<221> MOD_RES  
<222> (15)  
<223> Any amino acid
```

```
<220>
<221> MOD_RES
<222> (17)
<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Lys,
      Asn, Glu, Asp or Arg
```

```

<220>
<221> MOD_RES
<222> (18)
<223> Any amino acid; preferably Asp, Gly, Ala or Val

```

```

<220>
<221> MOD_RES
<222> (19)
<223> Any amino acid; suitably Phe, Asn, Lys or Arg

```

```
<220>
<221> MOD_RES
<222> (20)
<223> Any amino acid; preferably Thr, Pro, Phe or Ile
```

```
<220>
<221> MOD_RES
<222> (21)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
      or Leu
```

```

<220>
<221> MOD_RES
<222> (22)
<223> Any amino acid; suitably Ala, Ser or Arg

```

```
<220>  
<221> MOD_RES  
<222> (24)  
<223> Aromatic amino acid; preferably Tyr or His
```

```
<220>
<221> MOD_RES
<222> (26)
<223> Any amino acid; suitably Ser or Asn
```

<220>  
<221> MOD\_RES  
<222> (27)  
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val  
or Leu; preferably Pro, Ala or Thr

<220>  
<221> MOD\_RES  
<222> (28)  
<223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>  
<221> MOD\_RES  
<222> (29)  
<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Glu,  
Asp, His or Gln

<220>  
<221> MOD\_RES  
<222> (30)  
<223> Lys, Arg, His, Asp, Glu, Gln or Asn; preferably  
His, Lys, Arg or Gln

<220>  
<221> MOD\_RES  
<222> (31)  
<223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>  
<221> MOD\_RES  
<222> (33)  
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val  
or Leu; preferably Leu or Ile

<220>  
<221> MOD\_RES  
<222> (34)  
<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Glu  
or Lys

<220>  
<221> MOD\_RES  
<222> (36)  
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val  
or Leu; suitably Leu or Ile

<220>  
<221> MOD\_RES  
<222> (41)  
<223> Any amino acid; preferably Glu, Gly or Lys

<220>  
<221> MOD\_RES  
<222> (42)  
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val,  
Leu or Cys; preferably Gly

<220>  
 <221> MOD\_RES  
 <222> (48)  
 <223> Any amino acid; suitably Lys, Asn or Ile

<220>  
 <221> MOD\_RES  
 <222> (50)  
 <223> Any amino acid; preferably Lys, Gln or Ile

<400> 45  
 Lys Asp Xaa Pro Xaa Xaa Cys Xaa Leu Xaa Xaa Xaa Xaa Gly Xaa Cys  
 1 5 10 15  
 Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys  
 20 25 30  
 Xaa Xaa Phe Xaa Tyr Gly Gly Cys Xaa Xaa Asn Ala Asn Asn Phe Xaa  
 35 40 45  
 Thr Xaa Glu Glu Cys Glu Ser Thr Cys Ala Ala  
 50 55

<210> 46  
 <211> 59  
 <212> PRT  
 <213> Pseudonaja textilis

<400> 46  
 Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro Cys  
 1 5 10 15  
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glx Lys Lys Cys  
 20 25 30  
 Leu Glx Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile  
 35 40 45  
 Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Ser  
 50 55

<210> 47  
 <211> 59  
 <212> PRT  
 <213> Pseudonaja textilis

<400> 47  
 Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys  
 1 5 10 15  
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys  
 20 25 30  
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Ala Asn Ala Phe Ile  
 35 40 45

Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Gly  
 50 55

<210> 48  
 <211> 62  
 <212> PRT  
 <213> Unknown Organism

<220>  
 <223> Description of Unknown Organism: Taicotoxin  
 associated plasmin inhibitor

<400> 48  
 Lys Asp Arg Pro Lys Phe Cys His Leu Pro Pro Lys Pro Gly Pro Cys  
 1 5 10 15

Arg Ala Ala Ile Pro Arg Phe Tyr Tyr Asn Pro His Ser Lys Gln Cys  
 20 25 30

Glu Lys Phe Ile Tyr Gly Gly Cys His Gly Asn Ala Asn Lys Phe Lys  
 35 40 45

Thr Pro Asp Glu Cys Asn Tyr Thr Cys Leu Gly Val Ser Leu  
 50 55 60

<210> 49  
 <211> 58  
 <212> PRT  
 <213> Unknown Organism

<220>  
 <223> Description of Unknown Organism: Aprotinin

<400> 49  
 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala  
 1 5 10 15

Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr  
 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala  
 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala  
 50 55

<210> 50  
 <211> 180  
 <212> DNA  
 <213> Pseudonaja textilis

<220>  
 <221> CDS  
 <222> (1)..(180)

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (177)

&lt;223&gt; A, T, C or G

&lt;400&gt; 50

atg	aag	gac	cgg	cct	gat	ttt	tgt	gaa	ctg	cct	gct	gac	acc	gga	cca	48
Met	Lys	Asp	Arg	Pro	Asp	Phe	Cys	Glu	Leu	Pro	Ala	Asp	Thr	Gly	Pro	
1				5				10						15		

tgt	aga	gtc	aga	ttc	cca	tcc	ttg	tac	tac	aac	cca	gat	gaa	aaa	aaa	96
Cys	Arg	Val	Arg	Phe	Pro	Ser	Leu	Tyr	Tyr	Asn	Pro	Asp	Glu	Lys	Lys	
		20					25						30			

tgc	ctc	gag	ttt	att	tat	ggt	gga	tgc	gaa	ggg	aat	gct	aac	gat	ttt	144
Cys	Leu	Glu	Phe	Ile	Tyr	Gly	Gly	Cys	Glu	Gly	Asn	Ala	Asn	Asp	Phe	
		35				40						45				

atg	acc	aaa	gag	gag	tgt	gaa	agc	acg	tgt	ggn	agt					180
Met	Thr	Lys	Glu	Glu	Cys	Glu	Ser	Thr	Cys	Gly	Ser					
	50				55					60						

&lt;210&gt; 51

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 51

Met	Lys	Asp	Arg	Pro	Asp	Phe	Cys	Glu	Leu	Pro	Ala	Asp	Thr	Gly	Pro
1				5				10						15	

Cys	Arg	Val	Arg	Phe	Pro	Ser	Leu	Tyr	Tyr	Asn	Pro	Asp	Glu	Lys	Lys
		20					25						30		

Cys	Leu	Glu	Phe	Ile	Tyr	Gly	Gly	Cys	Glu	Gly	Asn	Ala	Asn	Asp	Phe
		35				40						45			

Met	Thr	Lys	Glu	Glu	Cys	Glu	Ser	Thr	Cys	Gly	Ser
	50				55					60	

&lt;210&gt; 52

&lt;211&gt; 180

&lt;212&gt; DNA

&lt;213&gt; Pseudonaja textilis

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(180)

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (177)

&lt;223&gt; A, T, C or G

25

&lt;400&gt; 52

atg aag gac cgg cct gag ttg tgt gaa ctg cct cct gac acc gga cca 48  
 Met Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro  
     1                    5                    10                    15

tgt aga gtc aga ttc cca tcc ttg tac tac aac cca gat gaa caa aaa 96  
 Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Gln Lys  
                     20                    25                    30

tgc ctc gag ttt att tat ggt gga tgc gaa gag aat gat aac gct ttt 144  
 Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Asp Asn Ala Phe  
                     35                    40                    45

atg acc aaa gag gag tgt gaa agc acg tgt ccn ggt 180  
 Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Pro Gly  
           50                    55                    60

&lt;210&gt; 53

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 53

Met Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro  
     1                    5                    10                    15

Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Gln Lys  
                     20                    25                    30

Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Asp Asn Ala Phe  
                     35                    40                    45

Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Pro Gly  
           50                    55                    60

&lt;210&gt; 54

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 54

ggagcttcat catgtcttct ggaggtcttc ttctcctgct gggactcctc accctctggg 60  
 aggtgctgac ccccgctctcc agcaaggacc gtccagagtt gtgtgaactg cctcctgaca 120  
 cgggaccatg tagagtcaga tccccatcct tctactacaa ccagatgaa caaaaatgcc 180  
 tagagtttat ttatggtgga tgcgaaggga atgctaacca attttatcac caaagaggaa 240  
 tgcgaaagca cctgtgctgc ctgaatgagg agaccctcct ggattggatc gacagttcca 300  
 acttgaccca aagaccctgc ttctgccctg gaccacccctg gacacccttc ccccaaacc 360  
 caccctggac taattccttt tctctgcaat aaagcttttg ttccagct 408

&lt;210&gt; 55

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

26

&lt;400&gt; 55

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
 1 5 10 15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu  
 20 25 30

Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
 35 40 45

Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys  
 50 55 60

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr  
 65 70 75 80

Cys Ala Ala

&lt;210&gt; 56

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 56

atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggaccg tccggatttc tgtgaactgc ctgctgacac cggaccatgt 120  
 agagtcagat tcccatcctt ctactacaac ccagatgaaa aaaagtgcct agagtttatt 180  
 tatggtggat gcgaaggga tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240  
 tgtgctgcct ga 252

&lt;210&gt; 57

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 57

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
 1 5 10 15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu  
 20 25 30

Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr  
 35 40 45

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys  
 50 55 60

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr  
 65 70 75 80

Cys Ala Ala

27

<210> 58  
 <211> 252  
 <212> DNA  
 <213> Pseudonaja textilis

<400> 58  
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggaccg tccagagttg tgtgaactgc ctctgacac cggaccatgt 120  
 agagtcagat tcccatcctt ctactacaac ccagatgaac aaaaatgcct agagtttatt 180  
 tatggtggat gcgaaggga tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240  
 tgtgctgcct ga 252

<210> 59  
 <211> 83  
 <212> PRT  
 <213> Pseudonaja textilis

<400> 59  
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
 1 5 10 15  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys  
 20 25 30  
 Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr  
 35 40 45  
 Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys  
 50 55 60  
 Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr  
 65 70 75 80  
 Cys Ala Ala

<210> 60  
 <211> 252  
 <212> DNA  
 <213> Pseudonaja textilis

<400> 60  
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggaccg tccaaatttc tgtaaactgc ctgctgaaac cggacgatgt 120  
 aatgccaaaa tccacgctt ctactacaac ccacgtcaac atcaatgcat agagtttctc 180  
 tatggtggat gcggaggga tgctaacaat ttaagacca ttaaggaatg cgaaagcacc 240  
 tgtgctgcat ga 252

<210> 61  
 <211> 83  
 <212> PRT  
 <213> Pseudonaja textilis

28

&lt;400&gt; 61

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
 1 5 10 15  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu  
 20 25 30  
 Leu Pro Ala Asp Thr Gly Ser Cys Lys Gly Asn Pro Val Arg Phe Tyr  
 35 40 45  
 Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys  
 50 55 60  
 Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Cys Lys Ser Thr  
 65 70 75 80  
 Cys Ala Ala

&lt;210&gt; 62

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 62

atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggacca tccaaaattc tgtgaactcc ctgctgaaac cggatcatgt 120  
 aaaggcaacg tcccacgctt ctactacaac gcagatcatc atcaatgcct aaaatttatt 180  
 tatggtggat gtggaggga tgctaacaat tttaagacca tagaggaagg caaaagcacc 240  
 tgtgctgcct ga 252

&lt;210&gt; 63

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Pseudonaja textilis

&lt;400&gt; 63

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
 1 5 10 15  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu  
 20 25 30  
 Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His  
 35 40 45  
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys  
 50 55 60  
 Gly Cys Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr  
 65 70 75 80  
 Cys Ala Ala

29

<210> 64  
 <211> 252  
 <212> DNA  
 <213> Pseudonaja textilis

<400> 64  
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggaccg tccaaaattc tgtgaactgc ttcctgacac cggatcatgt 120  
 gaagacttta ccggagcctt ccactacagc acacgtgac gtgaatgcat agagtttatt 180  
 tatggtggat gcggagggaa tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240  
 tgtgctgcct ga 252

<210> 65  
 <211> 83  
 <212> PRT  
 <213> Pseudonaja textilis

<400> 65  
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp  
           1                  5                  10                  15  
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu  
                   20                  25                  30  
 Leu Pro Ala Asp Ile Gly Pro Cys Asp Asp Phe Thr Gly Ala Phe His  
           35                  40                  45  
 Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys  
           50                  55                  60  
 Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Glu Cys Glu Ser Thr  
           65                  70                  75                  80  
 Cys Ala Ala

<210> 66  
 <211> 252  
 <212> DNA  
 <213> Pseudonaja textilis

<400> 66  
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60  
 cccgtctcca gcaaggaccg tccaaagtgc tgtgaactgc ctgctgacat cggaccatgg 120  
 gatgacttta ccggagcctt ccactacagc ccacgtgaac atgaatgcat agagtttatt 180  
 tatggtggat gcaaagggaa tgctaacaac tttaatacc aagagcaatg cgaaagcacc 240  
 tgtgctgcct ga 252